

Water-Data Report 2008

08067000 Trinity River at Liberty, TX

Lower Trinity Basin
Lower Trinity Subbasin

LOCATION.--Lat 30°03'27", long 94°49'05" referenced to North American Datum of 1927, Liberty County, TX, Hydrologic Unit 12030203, at downstream side of downstream bridge on U.S. Highway 90 in Liberty, 450 ft downstream from Texas and New Orleans Railroad Co. bridge, and at mile 40.3.

DRAINAGE AREA.--17,468 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Oct. 1938 to Sept. 1940 (gage heights, discharge measurements, and some records of daily discharge), Oct. 1940 to current year (daily mean discharges above 10,000 ft³/s). Gage-height records collected in this vicinity since 1903 are contained in reports of the National Weather Service.

PERIOD OF RECORD, Water-Quality.--Chemical data: Oct. 1970 to Aug. 1972. Biochemical data: Oct. 1970 to Aug. 1972. Pesticide data: May 1971 to Aug. 1972.

REVISED RECORDS.--WSP 1922: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 2.22 ft below NGVD of 1929; unadjusted for land-surface subsidence. Prior to Mar. 13, 1973, nonrecording gage at site at same datum. Satellite telemeter at station.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Since installation of gage in water year 1941, at least 10% of contributing drainage area has been regulated. Many diversions above station for municipal supplies, industrial uses, and irrigation. Some records listed in the "Period of Record" for surface water and water quality may not be available electronically.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 135,000 ft³/s, Oct. 12, 1994, gage height, 31.00 ft; minimum not determined (affected by tides); minimum gage height observed, 2.32 ft, Nov. 24, 1970. Maximum gage height since at least 1903, 31.00 ft, Oct. 12, 1994 (at 0500 hours).

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of May 8-11, 1922, reached a stage of 28.6 ft, present datum, from observations by the National Weather Service at nonrecording gage on railroad bridge upstream.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 29,500 ft³/s, Feb. 19, gage height, 25.13 ft; minimum discharge not determined (affected by tides); minimum gage height, 5.34 ft, Aug. 28, 29.

08067000 Trinity River at Liberty, TX—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY MEAN VALUES

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	---	---	---	---	---	---	23,800	12,200	---	---	---	---
2	---	---	---	---	---	---	25,400	12,200	---	---	---	---
3	---	---	---	---	---	---	26,900	12,200	---	---	---	---
4	---	---	---	---	---	---	27,700	12,600	---	---	---	---
5	---	---	---	---	---	---	28,300	14,200	---	---	---	---
6	---	---	---	---	---	---	e28,800	15,100	---	---	---	---
7	---	---	---	---	---	---	29,200	15,100	---	---	---	---
8	---	---	---	---	---	---	29,200	15,000	---	---	---	---
9	---	---	---	---	---	---	29,200	15,000	---	---	---	---
10	---	---	---	---	---	---	28,800	14,900	---	---	---	---
11	---	---	---	---	---	11,500	26,600	14,800	---	---	---	---
12	---	---	---	---	---	16,100	25,100	14,200	---	---	---	---
13	---	---	---	---	---	20,300	24,100	12,600	---	---	---	---
14	---	---	---	---	---	21,400	21,600	10,700	---	---	---	---
15	---	---	---	---	---	21,700	19,400	---	---	---	---	13,800
16	---	---	---	---	---	21,900	17,100	---	---	---	---	16,000
17	---	---	---	---	12,000	22,000	15,000	---	---	---	---	14,600
18	---	---	11,000	---	22,900	22,200	14,400	---	---	---	---	13,600
19	---	---	11,300	---	29,200	22,300	14,000	---	---	---	---	12,500
20	---	---	10,900	---	29,200	22,300	13,800	---	---	---	---	---
21	---	---	---	---	28,900	21,200	13,600	10,300	---	---	---	---
22	---	---	---	---	28,400	18,400	13,400	11,700	---	---	---	---
23	---	---	---	---	25,200	17,100	13,300	12,400	---	---	---	---
24	---	---	---	---	19,900	16,600	13,200	12,500	---	---	---	---
25	---	---	---	---	14,800	16,400	13,100	12,200	---	---	---	---
26	---	---	---	---	11,300	16,200	13,100	10,600	---	---	---	---
27	---	---	---	---	---	16,100	13,000	---	---	---	---	---
28	---	---	---	---	---	16,100	13,000	---	---	---	---	---
29	---	---	---	---	---	16,500	12,700	---	---	---	---	---
30	---	---	---	---	---	19,100	12,300	---	---	---	---	---
31	---	---	---	---	---	21,800	---	---	---	---	---	---